

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

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Glu Leu Gly Arg Pro Ala Arg Asp Glu Gly Gly Ser Gly Arg Asp
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Ser Lys Leu Lys Gln Ala Trp Val Ser Gln Gly Gly Gly Ala Lys
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Ala Gly Asp Leu Gln Val Arg Pro Arg Gly Asp Thr Pro Gln Ala
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Glu Ala Leu Ala Ala Ala Ala Gln Asp Ala Ile Gly Pro Glu Leu
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Arg Gly Lys Gly Cys Val Asp Glu Ser Gly Phe Val Tyr Ala Ile
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Gly Glu Lys Phe Ala Pro Gly Pro Ser Ala Cys Pro Cys Leu Cys
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His Pro Arg Cys Ile His Val Asp Thr Ser Gln Cys Cys Pro Gln
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Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val		
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Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys		
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35 40 45
Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
50 55 60
Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
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Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
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Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
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Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
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Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
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Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
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Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
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185 190 195
Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
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 50 55 60
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 Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly
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 Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu
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Leu Trp Tyr Ala Asp Trp Met Asp Gly	140	Gln Leu Val Glu Lys Gly	145		150
Arg Gln Asp Met Arg Gln Leu Ala Leu	155	Arg Leu Ala Ser Leu Phe	160		165
Pro Ala Leu Phe Ser Arg Glu Asn Tyr	170	Gly Arg Leu Arg Leu Ile	175		180
Thr Ser Ser Lys His Arg Cys Met Asp	185	Ser Ser Ala Ala Phe Leu	190		195
Gln Gly Leu Trp Gln His Tyr His Pro	200	Gly Leu Pro Pro Pro Asp	205		210
Val Ala Asp Met Glu Phe Gly Pro Pro	215	Thr Val Asn Asp Lys Leu	220		225
Met Arg Phe Phe Asp His Cys Glu Lys	230	Phe Leu Thr Glu Val Glu	235		240
Lys Asn Ala Thr Ala Leu Tyr His Val	245	Glu Ala Phe Lys Thr Gly	250		255
Pro Glu Met Gln Asn Ile Leu Lys Lys	260	Val Ala Ala Thr Leu Gln	265		270
Val Pro Val Asn Asp Leu Asn Ala Asp	275	Leu Ile Gln Val Ala Phe	280		285
Phe Thr Cys Ser Phe Asp Leu Ala Ile	290	Lys Gly Val Lys Ser Pro	295		300
Trp Cys Asp Val Phe Asp Ile Asp Asp	305	Ala Lys Val Leu Glu Tyr	310		315
Leu Asn Asp Leu Lys Gln Tyr Trp Lys	320	Arg Gly Tyr Gly Tyr Thr	325		330
Ile Asn Ser Arg Ser Ser Cys Thr Leu	335	Phe Gln Asp Ile Phe Gln	340		345
His Leu Asp Lys Ala Val Glu Gln Lys	350	Gln Arg Ser Gln Pro Ile	355		360
Ser Ser Pro Val Ile Leu Gln Phe Gly	365	His Ala Glu Thr Leu Leu	370		375
Pro Leu Leu Ser Leu Met Gly Tyr Phe	380	Lys Asp Lys Glu Pro Leu	385		390
Thr Ala Tyr Asn Tyr Lys Lys Gln Met	395	His Arg Lys Phe Arg Ser	400		405

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				425					430					435
Met	Leu	Leu	Asn	Glu	Lys	Val	Leu	Pro	Leu	Ala	Tyr	Ser	Gln	Glu
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Thr	Val	Ser	Phe	Tyr	Glu	Asp	Leu	Lys	Asn	His	Tyr	Lys	Asp	Ile
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Ala	Val	Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	35	40	45	
Phe	Glu	Ser	Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	50	55	60	
Ser	Asp	Pro	Arg	Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	65	70	75	
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Arg	Ala	Glu	Ile	Leu	Gly	Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	95	100	105	
Thr	Arg	Arg	Asp	Ser	Ala	Leu	Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	110	115	120	
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Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys	Arg	Val	Pro	Lys	Ala	Val	140	145	150	
Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys	Gln	Glu	Ser	Glu	Gly	155	160	165	
His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn	Asp	Val	Pro	Leu	170	175	180	
Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn	Ser	Ser	Phe	185	190	195	
His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala	Val	His	200	205	210	
Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp	Ala	215	220	225	
Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu	230	235	240	
Asn	Ile	Gly	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	245	250	255	
Leu	Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	260	265	270	
Tyr	Phe	Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	275	280	285	
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Asp Lys Asn Tyr	Met Ala His Leu Val	Glu Val Gln His Glu Arg	
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Gly Ala Ser Gly	Gly Gln Thr Phe His	Ser Leu Leu Thr Ala Ser	
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Leu Pro Pro Arg	Arg Asp Ser Thr Glu	Ala Pro Lys Pro Lys Ser	
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Ser Pro Glu Gln	Pro Ile Gly Gln Gly	Arg Ile Arg Val Gly Thr	
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Gln Leu Arg Val	Leu Gly Pro Glu Asp	Asp Leu Ala Gly Met Phe	
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Leu Gln Ile Phe	Pro Leu Ser Pro Asp	Pro Arg Trp Gln Ser Ser	
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Ser Pro Arg Pro	Val Ala Leu Ala Leu	Gln Gln Ala Leu Gly Gln	
	215	220	225
Glu Leu Ala Arg	Val Val Gln Gly Ser	Pro Glu Val Pro Gly Ile	
	230	235	240
Thr Val Arg Val	Leu Gln Ala Leu Ala	Thr Leu Leu Ser Ser Pro	
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His Gly Gly Ala	Leu Val Met Ser Met	His Arg Ser His Phe Leu	
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Ala Cys Pro Leu	Leu Arg Gln Leu Cys	Gln Tyr Gln Arg Cys Val	
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Pro Gln Asp Thr	Gly Phe Ser Ser Leu	Phe Leu Lys Val Leu Leu	
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Gln Met Leu Gln	Trp Leu Asp Ser Pro	Gly Val Glu Gly Gly Pro	
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Leu Arg Ala Gln	Leu Arg Met Leu Ala	Ser Gln Ala Ser Ala Gly	
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Arg Arg Leu Ser	Asp Val Arg Gly Gly	Leu Leu Arg Leu Ala Glu	
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Ala Leu Ala Phe	Arg Gln Asp Leu Glu	Val Val Ser Ser Thr Val	
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Arg Ala Val Ile	Ala Thr Leu Arg Ser	Gly Glu Gln Cys Ser Val	
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Glu Pro Asp Leu	Ile Ser Lys Val Leu	Gln Gly Leu Ile Glu Val	
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Arg Ser Pro His	Leu Glu Glu Leu Leu	Thr Ala Phe Phe Ser Ala	

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Gly Pro Ser Ser	Gly Leu Leu Val Asp	Trp Leu Glu Met Leu Asp			
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Pro Glu Val Val	Ser Ser Cys Pro Asp	Leu Gln Leu Arg Leu Leu			
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Phe Ser Arg Arg	Lys Gly Lys Gly Gln	Ala Gln Val Pro Ser Phe			
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Arg Pro Tyr Leu	Leu Thr Leu Phe Thr	His Gln Ser Ser Trp Pro			
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Gln Lys Arg Arg	Glu Glu Leu Val Leu	Arg Val Gln Gly Pro Glu			
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Arg Lys Val Thr	Glu His Leu Ser Gly	Cys Ile Gln Gln Trp Gly			
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Asp Ser Val Leu	Gly Arg Arg Cys Arg	Asp Leu Leu Leu Gln Leu			
	635		640		645
Tyr Leu Gln Arg	Pro Glu Leu Arg Val	Pro Val Pro Glu Val Leu			
	650		655		660
Leu His Ser Glu	Gly Ala Ala Ser Ser	Ser Val Cys Lys Leu Asp			
	665		670		675
Gly Leu Ile His	Arg Phe Ile Thr Leu	Leu Ala Asp Thr Ser Asp			
	680		685		690

Ser Arg Ala Leu	Glu Asn Arg Gly Ala	Asp Ala Ser Met Ala Cys
695	700	705
Arg Lys Leu Ala	Val Ala His Pro Leu	Leu Leu Arg His Leu
710	715	720
Pro Met Ile Ala	Ala Leu Leu His Gly	Arg Thr His Leu Asn Phe
725	730	735
Gln Glu Phe Arg	Gln Gln Asn His Leu	Ser Cys Phe Leu His Val
740	745	750
Leu Gly Leu Leu	Glu Leu Leu Gln Pro	His Val Phe Arg Ser Glu
755	760	765
His Gln Gly Ala	Leu Trp Asp Cys Leu	Leu Ser Phe Ile Arg Leu
770	775	780
Leu Leu Asn Tyr	Arg Lys Ser Ser Arg	His Leu Ala Ala Phe Ile
785	790	795
Asn Lys Phe Val	Gln Phe Ile His Lys	Tyr Ile Thr Tyr Asn Ala
800	805	810
Pro Ala Ala Ile	Ser Phe Leu Gln Lys	His Ala Asp Pro Leu His
815	820	825
Asp Leu Ser Phe	Asp Asn Ser Asp Leu	Val Met Leu Lys Ser Leu
830	835	840
Leu Ala Gly Leu	Ser Leu Pro Ser Arg	Asp Asp Arg Thr Asp Arg
845	850	855
Gly Leu Asp Glu	Glu Gly Glu Glu Glu	Ser Ser Ala Gly Ser Leu
860	865	870
Pro Leu Val Ser	Val Ser Leu Phe Thr	Pro Leu Thr Ala Ala Glu
875	880	885
Met Ala Pro Tyr	Met Lys Arg Leu Ser	Arg Gly Gln Thr Val Glu
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Asp Leu Leu Glu	Val Leu Ser Asp Ile	Asp Glu Met Ser Arg Arg
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Arg Pro Glu Ile	Leu Ser Phe Phe Ser	Thr Asn Leu Gln Arg Leu
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Met Ser Ser Ala	Glu Glu Cys Cys Arg	Asn Leu Ala Phe Ser Leu
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Ala Leu Arg Ser	Met Gln Asn Ser Pro	Ser Ile Ala Ala Ala Phe
950	955	960
Leu Pro Thr Phe	Met Tyr Cys Leu Gly	Ser Gln Asp Phe Glu Val
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Val Gln Thr Ala	Leu Arg Asn Leu Pro	Glu Tyr Ala Leu Leu Cys

980	985	990
Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly		
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Met Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu		
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<213> Homo sapiens

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ccgtggaacg gctcacaccg gcacgtgctg cacctgccca ccgtcttcca 400

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gttcattctc atgttctacc gggacaagcc catcgactgg ctcttgagcc 1050

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Gln	Lys	Gly	Asp	Val	Val	Asp	Val	Tyr	Gln	Arg	Glu	Phe	Leu	Ala	
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Ser	Lys	Glu	Leu	Asn	Leu	Val	Leu	Asp	Glu	Ile	Lys	Arg	Ala	Val	
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Ser	Glu	Arg	Gln	Ala	Leu	Arg	Asp	Gly	Asp	Gly	Asn	Arg	Thr	Trp	
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Gly	Arg	Leu	Thr	Glu	Asp	Pro	Arg	Leu	Lys	Pro	Trp	Asn	Gly	Ser	
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His	Arg	His	Val	Leu	His	Leu	Pro	Thr	Val	Phe	His	His	Leu	Pro	
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His	Leu	Leu	Ala	Lys	Glu	Ser	Ser	Leu	Gln	Pro	Ala	Val	Arg	Val	
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Gly	Gln	Gly	Arg	Thr	Gly	Val	Ser	Val	Val	Met	Gly	Ile	Pro	Ser	
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Val	Arg	Arg	Glu	Val	His	Ser	Tyr	Leu	Thr	Asp	Thr	Leu	His	Ser	
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Leu	Ile	Ser	Glu	Leu	Ser	Pro	Gln	Glu	Lys	Glu	Asp	Ser	Val	Ile	
				170					175					180	
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Thr	Glu	Asn	Ile	Lys	Ala	Leu	Phe	Pro	Thr	Glu	Ile	His	Ser	Gly	
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Ser	Arg	Leu	Arg	Glu	Ser	Phe	Gly	Asp	Pro	Lys	Glu	Arg	Val	Arg	
				230					235					240	
Trp	Arg	Thr	Lys	Gln	Asn	Leu	Asp	Tyr	Cys	Phe	Leu	Met	Met	Tyr	
				245					250					255	
Ala	Gln	Ser	Lys	Gly	Ile	Tyr	Tyr	Val	Gln	Leu	Glu	Asp	Asp	Ile	
				260					265					270	
Val	Ala	Lys	Pro	Asn	Tyr	Leu	Ser	Thr	Met	Lys	Asn	Phe	Ala	Leu	
				275					280					285	
Gln	Gln	Pro	Ser	Glu	Asp	Trp	Met	Ile	Leu	Glu	Phe	Ser	Gln	Leu	
				290					295					300	
Gly	Phe	Ile	Gly	Lys	Met	Phe	Lys	Ser	Leu	Asp	Leu	Ser	Leu	Ile	
				305					310					315	
Val	Glu	Phe	Ile	Leu	Met	Phe	Tyr	Arg	Asp	Lys	Pro	Ile	Asp	Trp	

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Leu Leu Asp His Ile Leu Trp Val Lys	Val Cys Asn Pro Glu Lys	
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Asp Ala Lys His Cys Asp Arg Gln Lys	Ala Asn Leu Arg Ile Arg	
350	355	360
Phe Lys Pro Ser Leu Phe Gln His Val	Gly Thr His Ser Ser Leu	
365	370	375
Ala Gly Lys Ile Gln Lys Leu Lys Asp	Lys Asp Phe Gly Lys Gln	
380	385	390
Ala Leu Arg Lys Glu His Val Asn Pro	Pro Ala Glu Val Ser Thr	
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Ser Leu Lys Thr Tyr Gln His Phe Thr	Leu Glu Lys Ala Tyr Leu	
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Arg Glu Asp Phe Phe Trp Ala Phe Thr	Pro Ala Ala Gly Asp Phe	
425	430	435
Ile Arg Phe Arg Phe Phe Gln Pro Leu	Arg Leu Glu Arg Phe Phe	
440	445	450
Phe Arg Ser Gly Asn Ile Glu His Pro	Glu Asp Lys Leu Phe Asn	
455	460	465
Thr Ser Val Glu Val Leu Pro Phe Asp	Asn Pro Gln Ser Asp Lys	
470	475	480
Glu Ala Leu Gln Glu Gly Arg Thr Ala	Thr Leu Arg Tyr Pro Arg	
485	490	495
Ser Pro Asp Gly Tyr Leu Gln Ile Gly	Ser Phe Tyr Lys Gly Val	
500	505	510
Ala Glu Gly Glu Val Asp Pro Ala Phe	Gly Pro Leu Glu Ala Leu	
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